SPURS-MIDAS cruise March-April 2013



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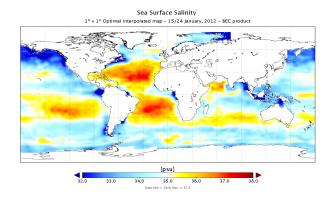
SMOS data access

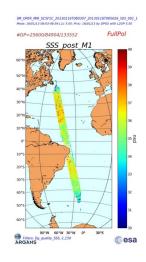
Level 2 data from ESA

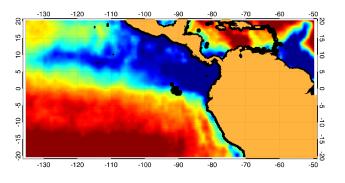
https://earth.esa.int/web/guest/

SMOS-BEC Level 3 and 4 data

http://cp34-bec.cmima.csic.es







CATDS data

http://www.salinityremotesensing.ifremer.fr/home

SPURS Meeting, Miami, January 2013



SPURS-MIDAS 2013

Spanish contribution to SPURS

Component of MIDAS-6 project 2011-2013 PI: Jordi Font (ICM-CSIC)

SPURS-MIDAS 32-days cruise March – April 2013

R/V Sarmiento de Gamboa

- Overall length: 70.5 m
- Endurance: 40 days
- Maximum speed: 15 knots
- Crew 16 / Scientists 26
- 8000m depth deployment



Departure: Las Palmas, Canary Is., 16 March

5 days transit

19 days SPURS operations

8 days transit

Arrival: Santo Domingo, Dominican Republic, 17 April

(possible change: return to Vigo, NW Spain, same transit length)



SPURS-MIDAS 2013

Available equipment

- Seabird 911 plus CTD + rosette + LADCP
- VM-ADCP Ocean Surveyor 75 & 150 KHz
- SeaSoar (5-400 m profiles @ 8 knt)
- Underway surface TSG
- 12 SVP-ICM drifters (S @ -50 cm)
- 1 special drifter with S at 3 depths (under construction)
- 2 Apex profiling floats (SBE41, GPS, Iridium, one with Fluor. + O₂)
- possible WaveGlider for one month?
- ASIP microstructure profiler (B. Ward, U. Galway)
- Meteorological + air-sea fluxes sensors
- Surpact floats (G. Reverdin, LOCEAN)

Participants

8 ICM-CSIC

5 UTM-CSIC technicians

4 U. Galway

2 (1?) LOCEAN

2 U. Vigo (biology, ocean colour)

2 U. Cadiz (chemistry)?

some breaths still free





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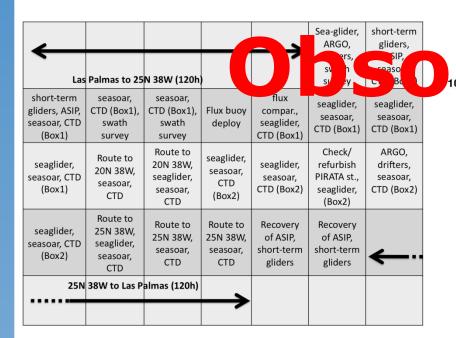


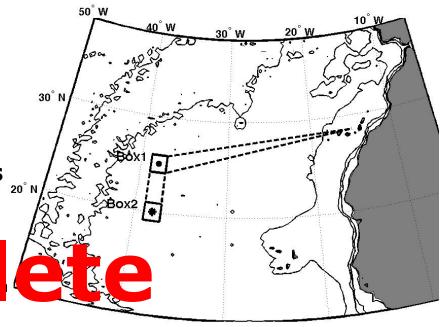
Original planning

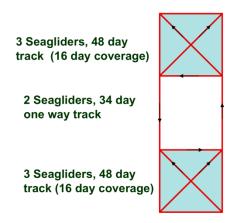
Expected to be the 1st SPURS cruise in March 2012

Study region: two 200 km boxes around 20N 38W, 25N 38W

SeaSoar sampling CTD stations Moorings, gliders, floats, drifters







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Present situation

To coordinate with Endeavour: two vessels cruise

Joint planning, complementary measurements (e.g. possible Sarmiento general survey of SPURS area while Endeavour servicing moorings and gliders)

Specific components:

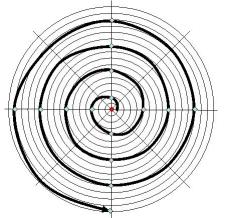
ASIP near-surface profiles (including near to WHOI turbulence glider)

Surpact-SPV drifters comparison

Mixed layer depth change study (6-7 days special sampling)

short cycle Argo profiling SeaSoar spiral 1000 m CTD twice a day

Additional daily plankton sampling



200 km diameter, around WHOI mooring



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